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L2	2231	380/37 or 380/259 or 380/268 or 380/29 or 380/42 or 380/277	USPAT	OR	OFF	2006/05/09 16:38
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L5	0	encrypt\$3.clm. and decrypt\$3.clm. and divid\$3.clm. and "data segments".clm. and key.clm. and generat\$3.clm. and sequenc\$3.clm. and cipher\$4.clm.string\$1.clm. and function.clm. and shar\$3.clm. and output\$3.clm. and accessory.clm.	USPAT	OR	OFF	2006/05/09 16:43
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L7	818	encrypt\$3 and decrypt\$3 and divid\$3 and "data segments" and key and generat\$3 and sequenc\$3 and cipher\$4 string\$1 and function and shar\$3 and output\$3 and accessory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/09 16:44
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1 Session 11A: Collusion-free protocols

Matt Lepinski, Silvio Micali, abhi shelat

 May 2005 **Proceedings of the thirty-seventh annual ACM symposium on Theory of computation**
Publisher: ACM Press

Full text available: [pdf\(271.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Secure protocols attempt to minimize the injuries to privacy and correctness inflicted by malicious participants who *collude during run-time*. They do not, however, prevent malicious parties from colluding and coordinating their actions in the first place! Eliminating such collusion of malicious parties during the execution of a protocol is an important and exciting direction for research in Cryptography. We contribute the first general result in this direction: (1) We provide a rigorous

Keywords: secure function evaluation, steganography

2 System R: relational approach to database management

 M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. K. R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson
June 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: [pdf\(3.18 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

System R is a database management system which provides a high level relational data interface. The systems provides a high level of data independence by isolating the end user as much as possible from underlying storage structures. The system permits definition of a variety of relational views on common underlying data. Data control features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural language, recovery, relational model

3 Fortran 8X draft

 Loren P. Meissner
December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Publisher: ACM Press

Full text available:  pdf(21.36 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Standard Programming Language Fortran. This standard specifies the form and establishes interpretation of programs expressed in the Fortran language. It consists of the specification of language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, a standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can be ...

4 Principles of package design



Bertrand Meyer

July 1982 **Communications of the ACM**, Volume 25 Issue 7

Publisher: ACM Press

Full text available:  pdf(1.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Subprogram packages are groups of related subroutines used to extend the available facilities in a programming system. The results of developing several such packages for various applications are presented, with a distinction made between external and internal design criteria— what properties packages should offer to their users and the guidelines designers should follow in order to provide them. An important issue, the design of reusable software, is thus addressed, and the concept of ...

Keywords: Fortran, reusable software tool, software tool

5 Efficient frequency domain video scrambling for content access control



Wenjun Zeng, Shawmin Lei

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Publisher: ACM Press

Full text available:  pdf(1.65 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multimedia data security is very important for multimedia commerce on the Internet such as video-on-demand and real-time video multicast. Traditional cryptographic algorithms for data security are often not fast enough to process the vast amount of data generated by the multimedia applications to meet the real-time constraints. This paper presents a joint encryption and compression framework in which video data are scrambled efficiently in the frequency domain by employing selective bit scrambling ...

Keywords: compression, content access control, multimedia commerce, multimedia encryption, multimedia security, selective encryption, video scrambling

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